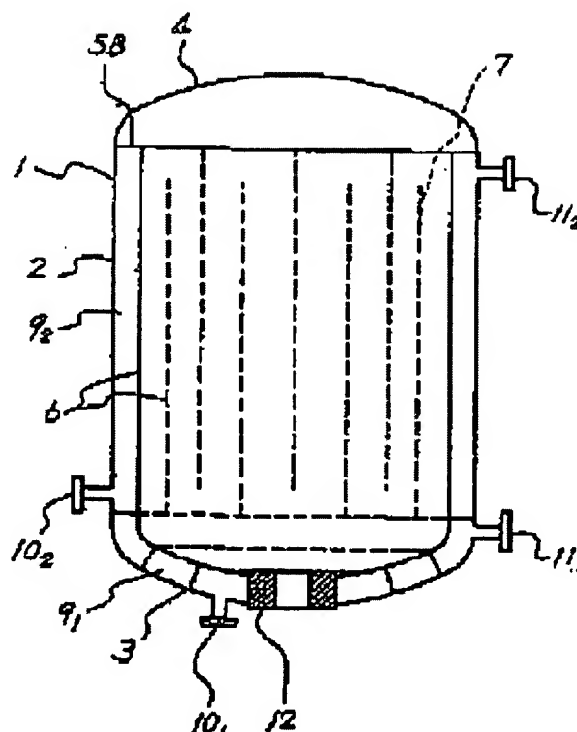


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- international: C07C11/107; B01J31/22; C07C2/32; C10G50/00  
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**PROBLEM TO BE SOLVED:** To provide a method for producing an  $\alpha$ -olefin low grade polymer excellent in heat conductivity, capable of effectively removing a reaction heat, with high productivity.

**SOLUTION:** This low grade polymerization reaction of an  $\alpha$ -olefin using a chromium-based catalyst is performed in a tank having a structure in which partition plates 7 are placed orthogonally to an outer face of an inner cylinder 6 at intervals and an outer strip is mounted between tips of the partition plates 7, then a temperature control element 5B having a flowing path of a heating medium is formed, thus the outer strip side of the temperature control element 5B is fixed in opposing to an inner face of the vessel main body.



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